

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20060137777"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2008/04/12 16:44
L2	72	Ishikawa, Tadashi.in. OR Nakashima, Kiyotaka.in. OR Nose, Tetsuro.in.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2008/04/12 16:44
L3	90	Nippon steel corporation.as. and ultraso\$8	US-PGPUB; USPAT; DERWENT	ADJ	ON	2008/04/12 16:44
L4	342	148/525,558.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:44
L5	44	ultraso\$8 near weld\$5 and "148".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:44
L6	81	statnikov.in. or prokopenko.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:44
L7	72	ultraso\$8 near20 weld \$5 and (crystal\$8 or microstructure or grain) near10 size and ("148".clas. or "428". clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:44
L8	11	berthelet.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:44
L9	28	duquenne.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:44
L10	0	(B23K020/10.ipc. or b21j000/00.ipc. or C21D010/00.ipc.) and ultraso\$8 and weld\$6	DERWENT	ADJ	ON	2008/04/12 16:44
L11	6	trufyakov.in.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2008/04/12 16:44
L12	172	("228".clas. or "199". clas.) and ultraso\$ near20 weld\$6 and (grain or crystal or microstructure)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:44
L13	131	("228".clas. or "199". clas.) and ultraso\$ near20 (impact or treatment or peen\$6)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:45
L14	342	148/525,558.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/04/12 16:45

L15	5209	M23-J or M24-D06	DERWENT	ADJ	ON	2008/04/12 16:45
L16	1020	("228".clas. or "199".clas. or "148".clas. or "75".clas. or "29".clas. or "428".clas.) and (ultraso\$4) near3 (treat \$4 or peen\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/04/12 16:46
L17	148	L16 and weld\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/04/12 16:46
S1	2	"6338765".pn.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/29 15:21
S2	2	"20020124402"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/29 15:26
S3	2	"20020014100"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/29 15:27
S4	2	"20060137777"	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/29 15:29
S5	64	Ishikawa, Tadashi.in.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/29 15:32
S6	72	Ishikawa, Tadashi.in. OR Nakashima, Kiyotaka.in. OR Nose, Tetsuro.in.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/29 15:34
S7	2143	Nippon steel corporation.as.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 07:43
S8	90	Nippon steel corporation.as. and ultraso\$8	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 07:43
S9	0	Nippon steel corporation.as. and ultraso\$8 and 148/558. cols.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 07:46
S10	610	Nippon steel corporation.as. and "148".clas.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 07:46
S11	200	Nippon steel corporation.as. and "148".clas. and weld\$8	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 07:46

S12	11	Nippon steel corporation.as. and "148" clas. and weld\$8 and ultraso\$8	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 07:46
S13	1	"20060137777"	DERWENT	ADJ	ON	2007/10/30 07:47
S14	1	"20060130942"	DERWENT	ADJ	ON	2007/10/30 07:49
S15	1	"6171415".pn.	DERWENT	ADJ	ON	2007/10/30 08:06
S16	1	"6171415".pn.	US-PGPUB; USPAT	ADJ	ON	2007/10/30 08:14
S17	0	09-234585	DERWENT	ADJ	ON	2007/10/30 08:21
S18	0	JP09234585	DERWENT	ADJ	ON	2007/10/30 08:21
S19	334	148/525,558.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 08:33
S20	53	148/525,558.ccls. and ultraso\$8	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 08:33
S21	41	ultraso\$8 near weld\$5 and "148".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 08:51
S22	75	statnikov.in. or prokopenko.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 08:53
S23	51595	UIT	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 08:59
S24	11	UIT.as.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 08:59
S25	25	ultrasonic impact treatment	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 08:59
S26	34239	ultraso\$8 near20 weld \$5	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:52
S27	5269	ultraso\$8 near20 weld \$5 and crystal\$8	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:53
S28	140	ultraso\$8 near20 weld \$5 near20 crystal\$8	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:53
S29	376	ultraso\$8 near20 weld \$5 and (crystal\$8 or microstructure) near10 size	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:55
S30	607	ultraso\$8 near20 weld \$5 and (crystal\$8 or microstructure or grain) near10 size	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:55

S31	69	ultraso\$8 near20 weld \$5 and (crystal\$8 or microstructure or grain) near10 size and ("148".clas. or "428". clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:56
S32	2	ultraso\$8 near20 weld \$5 and (crystal\$8 or microstructure or grain) near10 size and ("148".clas. or "428". clas ) and steel balls	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:57
S33	1312	ultraso\$8 near20 weld \$5 and undercut	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 10:59
S34	15	(ultraso\$8 near20 weld \$5) NEAR30 undercut	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:00
S35	15	(ultraso\$8 near30 weld \$5) NEAR30 undercut	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:00
S36	799	(weld\$5) NEAR30 undercut	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:01
S37	1	"6289705".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:04
S38	11	berthelet.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:05
S39	28	duquenne.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:09
S40	899	statnikov.in. or prokopenko.in.	DERWENT	ADJ	ON	2007/10/30 11:11
S41	63	statnikov.in. or prokopenko.in. and ultraso\$8	DERWENT	ADJ	ON	2007/10/30 11:11
S42	1	"6467321".pn.	DERWENT	ADJ	ON	2007/10/30 11:16
S43	1	"6926780".pn.	DERWENT	ADJ	ON	2007/10/30 11:17
S44	1	"5654992".pn.	DERWENT	ADJ	ON	2007/10/30 11:19
S45	2	"3961739".pn.	DERWENT	ADJ	ON	2007/10/30 11:20
S46	5183	m23-J or m24-D06	DERWENT	ADJ	ON	2007/10/30 11:24
S47	77	(m23-J or m24-D01b) and ultraso\$8	DERWENT	ADJ	ON	2007/10/30 11:26
S48	0	B21J00/00.ipc. and ultraso\$8	DERWENT	ADJ	ON	2007/10/30 11:37

S49	1140	(B23K020/10.ipc. or b21j000/00.ipc. or C21D010/00.ipc.) and ultraso\$8	DERWENT	ADJ	ON	2007/10/30 11:38
S50	1140	(B23K020/10.ipc. or b21j000/00.ipc. or C21D010/00.ipc.) and ultraso\$8	DERWENT	ADJ	ON	2007/10/30 11:38
S51	740	(B23K020/10.ipc. or b21j000/00.ipc. or C21D010/00.ipc.) and ultraso\$8 and weld\$6	DERWENT	ADJ	ON	2007/10/30 11:38
S52	38	(B23K020/10.ipc. or b21j000/00.ipc. or C21D010/00.ipc.) and ultraso\$8 and weld\$6 and (stress\$5 or grain or microstructure or crystal)	DERWENT	ADJ	ON	2007/10/30 11:39
S53	608	"75".clas. and ultraso \$8	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:50
S54	4969	"29".clas. and ultraso \$8	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:50
S55	1652	"29".clas. and ultraso \$8 near30 weld\$6	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:50
S56	46	ultraso\$8 near20 weld \$5 and (crystal\$8 or microstructure or grain) near10 size and ("29".clas. or "72". clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:51
S57	0	ultraso\$8 near20 peening and (crystal\$8 or microstructure or grain) near10 size and ("29".clas. or "72". clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:52
S58	43	ultraso\$8 near5 peen \$4 and ("29".clas. or "72".clas. or "148".clas. or "428".clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:53
S59	3	(ultraso\$8 near5 peen \$4) near30 (crystal\$8 or microstructure or grain)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 11:55
S60	2	11/342,846	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 14:29
S61	2	"3210843".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 15.49

S62	1	"4126031".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 15:49
S63	27	ultraso\$ near10 peen \$5 and grain	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 15:50
S64	108	ultraso\$ near10 tough \$5	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 16:04
S65	1103	ultraso\$ near20 (peen \$5 or vibrat\$5) and tough\$5	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 16:05
S66	8	(ultraso\$ near20 (peen \$5 or vibrat\$5)) near30 tough\$5	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 16:05
S67	1	"20010025518"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/30 16:06
S68	17	Nippon steel corporation.as. and ultraso\$8 and tough\$5	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:08
S69	25	Nippon steel corporation.as. and ishikawa.in.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:09
S70	1081	(Tadashi.in. OR Kiyotaka.in. OR Tetsuro.in.) and ultraso \$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:10
S71	198	(Tadashi.in. OR Kiyotaka.in. OR Tetsuro.in.) and ultraso \$6 and grain	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:10
S72	3	(Tadashi.in. OR Kiyotaka.in. OR Tetsuro.in.) and ultraso \$6 near 20 peen\$5	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:11
S73	23	(Tadashi.in. OR Kiyotaka.in. OR Tetsuro.in.) and peen \$5	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:13
S74	6	trufyakov.in.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:48
S75	121	ultrasonic near30 grain size	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:55
S76	15	ultrasonic near30 grain size and toughness	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:55
S77	129	ultrasonic impact	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:55

S78	14	ultrasonic impact and tough\$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/10/30 16:56
S79	2	"20050242066"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 08:32
S80	5	"6223974"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 08:53
S81	1528	ultrasonic near20 grain	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 09:01
S82	398	ultrasonic near20 (grain near5 size)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 09:01
S83	63	ultrasonic near20 (grain near5 size) and weld\$6	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 09:02
S84	6	ultrasonic (vibration or impact or peen\$5) near20 (grain near5 size) and weld\$6	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 09:05
S85	0	JP 52-057044	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 09:09
S86	0	JP52057044	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 09:09
S87	2	"52057044"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/31 09:09
S88	7090	ultraso\$6 and tough\$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:03

S89	1206	ultraso\$6 and (improv \$6 or increas\$6) near5 tough\$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:03
S90	102	ultraso\$6 near10 (impact\$5 or treatment or peen\$5) and (improv \$6 or increas\$6) near5 tough\$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:04
S91	73	ultraso\$6 near5 (impact \$5 or treatment or peen \$5) and (improv\$6 or increas\$6) near5 tough \$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:04
S92	2	("statnikov.in" or prokopenko.in.) and tough\$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:06
S93	78	statnikov.in.	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:07
S94	3	statnikov.in. and tough \$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:07
S95	5	ultrasonic near5 peen \$5 and tough\$6	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/01 08:08
S96	6	(3274033 4823599 4968359 5035142 5242512 5286313).pn.	USPAT	ADJ	ON	2007/11/01 13:27
S97	37705	"228".clas. or "199". clas. and ultraso\$6	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:25
S98	37705	"228".clas. or "199". clas. and ultraso\$6 and weld\$6	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:26
S99	37705	"228".clas. or "199". clas. and ultraso\$6 near (treatment or impact or vibration)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:26
S100	806	("228".clas. or "199". clas.) and ultraso\$6 near (treatment or impact or vibration)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:26
S101	3028	("228".clas. or "199". clas.) and ultraso\$	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:26
S102	633	("228".clas. or "199". clas.) and ultraso\$ near weld\$6	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:27

S103	167	("228".clas. or "199".clas.) and ultraso\$near20 weld\$6 and (grain or crystal or microstructure)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:27
S104	130	("228".clas. or "199".clas.) and ultraso\$near20 (impact or treatment or peen\$6)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 15:28
S105	2934	("228".clas. or "199".clas.) and ultraso\$6	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 16:14
S106	29	("228".clas. or "199".clas.) and ultraso\$6 and nano\$10	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 16:14
S107	212	("228".clas. or "199".clas.) and nano\$10	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 16:15
S108	75	("228".clas. or "199".clas.) and nano\$10 and \$5crystal\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/01 16:15
S109	358	"148".clas. and mechanical alloying	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/05 11:05
S110	3	"148".clas. and mechanical alloying and ultrasound	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/05 11:06
S111	4	"148".clas. and mechanical alloying near10 impact	US-PGPUB; USPAT; DERWENT	ADJ	ON	2007/11/05 11:06
S112	1311	mechanical alloying	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:10
S113	396	mechanical alloying and nano\$10	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:10
S114	174	mechanical alloying and nanocrystal\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:10
S115	16	mechanical alloying and nanocrystal\$4 near5 (surface or layer)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:10
S116	59	ultrasonic impact and (air or inert or atmosphere or shield gas)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:17
S117	1	ultrasonic impact and shield gas	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:34
S118	49	shield gas near5 oxidation	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:35
S119	4	shield gas near5 oxidation and surface treatment	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/05 11:36

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